

**$f_2(2340)$** 

$$I^G(J^{PC}) = 0^+(2^{++})$$

NODE=M108

 **$f_2(2340)$  MASS**

NODE=M108M

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2339±55</b>		<sup>1</sup> ETKIN	88	MPS 22 $\pi^- p \rightarrow \phi\phi n$
• • •		We do not use the following data for averages, fits, limits, etc. • • •		
2350±7	80k	<sup>2</sup> UMAN	06	E835 5.2 $\bar{p} p \rightarrow \eta\eta\pi^0$
2392±10		BOOTH	86	OMEG 85 $\pi^- Be \rightarrow 2\phi Be$
2360±20		LINDENBAUM	84	RVUE

NODE=M108M

<sup>1</sup> Includes data of ETKIN 85. The percentage of the resonance going into  $\phi\phi 2^{++} S_2$ ,  $D_2$ , and  $D_0$  is  $37 \pm 19$ ,  $4^{+12}_{-4}$ , and  $59^{+21}_{-19}$ , respectively.

NODE=M108M;LINKAGE=C

<sup>2</sup> Statistical error only.

NODE=M108M;LINKAGE=ST

 **$f_2(2340)$  WIDTH**

NODE=M108W

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>319<sup>+81</sup><sub>-69</sub></b>		<sup>3</sup> ETKIN	88	MPS 22 $\pi^- p \rightarrow \phi\phi n$
• • •		We do not use the following data for averages, fits, limits, etc. • • •		
218±16	80k	<sup>4</sup> UMAN	06	E835 5.2 $\bar{p} p \rightarrow \eta\eta\pi^0$
198±50		BOOTH	86	OMEG 85 $\pi^- Be \rightarrow 2\phi Be$
150 <sup>+150</sup> <sub>-50</sub>		LINDENBAUM	84	RVUE

NODE=M108W

<sup>3</sup> Includes data of ETKIN 85.

NODE=M108W;LINKAGE=C

<sup>4</sup> Statistical error only.

NODE=M108W;LINKAGE=ST

 **$f_2(2340)$  DECAY MODES**

NODE=M108215;NODE=M108

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $\phi\phi$	seen
$\Gamma_2$ $\eta\eta$	seen

DESIG=1;OUR EST;→ UNCHECKED ←  
DESIG=2

 **$f_2(2340)$  BRANCHING RATIOS**

NODE=M108220

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	$\Gamma_2/\Gamma$
<b>seen</b>	UMAN	06	E835 5.2 $\bar{p} p \rightarrow \eta\eta\pi^0$	

NODE=M108R01  
NODE=M108R01

 **$f_2(2340)$  REFERENCES**

NODE=M108

UMAN	06	PR D73 052009	I. Uman <i>et al.</i>	(FNAL E835)	REFID=51063
ETKIN	88	PL B201 568	A. Etkin <i>et al.</i>	(BNL, CUNY)	REFID=40285
BOOTH	86	NP B273 677	P.S.L. Booth <i>et al.</i>	(LIVP, GLAS, CERN)	REFID=21870
ETKIN	85	PL 165B 217	A. Etkin <i>et al.</i>	(BNL, CUNY)	REFID=21871
LINDENBAUM	84	CNPP 13 285	S.J. Lindenbaum	(CUNY)	REFID=21869